ASSIGNMENT 3: INTERACTIVE VISUALIZATION

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1 Interactive Visualization

1.1 Question

How has my champion's win rate changed over time? Is my champion still strong in the current meta?

I want the user to easily see the win rate of their champion over time. Winrate is a key metric in League of Legends, as it is a good indicator of how strong a champion is in the current meta. This would allow the user to see how their champion has been impacted in recent patches.

Winrate is not a direct representation of power, since some champions are harder to play than others. Easy champions usually have high winrates, while hard champions have lower winrates. Additionally, hyper-specific champions have really high winrates, since they are only played in specific situations.

Nevertheless, patterns in winrates can be indicative of power. For example, a 2% growth in winrates over a patch can be indicative of a very strong relating buff, while a 2% decrease can be indicative of a strong relative nerf. Additionally, a winrate that is consistently above 50% can show that a champion has and is strong in the current meta.

1.2 Data

1.2.1 Data Source

Riot's Developer API is very hard to use. In my opinion, is not well documented, and it is very hard to get the data you want. Hence, I wll scrape some data off the internet to get the winrate of a champion over time.

Particularly I need:

1. The winrate of a champions over time.
2. The tier of the champion over time.
3. Visual Assets of the champion.

1.2.2 Data Retreival

To get winrate data, I will scrape `https://lolalytics.com/lol/tierlist/` for the winrate and tier of a champion over time.

After analyzing the beautiful soup output,